Deletion Rules

Tautology deletion:

$$\frac{N \cup \{C\}|P}{N|P}$$

where C is of the form $C' \vee A \vee \neg A$.

Forward subsumption:

$$\frac{N \cup \{C\}|P}{N|P}$$

where there is $D \in P$ such that $C \subseteq D$.

Backward subsumption:

$$\frac{N|P \cup \{C\}}{N|P}$$

where there is $D \in N$ such that $C \subset D$.

Forward reduction:

$$\frac{N \cup \{C \vee L\}|P}{N \cup \{C\}|P}$$

where there is $D \vee L' \in P$ such that $\neg L = L'\sigma$ and $D\sigma \subseteq C$.