$$1 \xrightarrow{\operatorname{coev}_X} X \otimes X^{\vee} \xrightarrow{f \otimes \operatorname{id}_{X^{\vee}}} X \otimes X^{\vee} \xrightarrow{\operatorname{br}} X^{\vee} \otimes X \xrightarrow{\operatorname{ev}_X} 1$$